### Growing Catch Crops

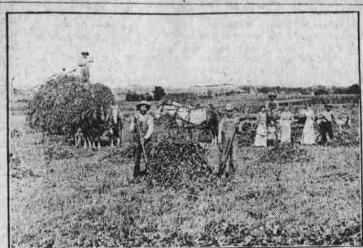
The Shortage of Hay and Pasture Makes Short-Growing Crops of Unusual Interests to Farmers

By C. E. Brashear. Student in the College of Agriculture, University of Missour

fered from the drought most. In some weeks, making it unusually early in being grazed off, and the cornfields It grows very rapidly and is troubled

Generally speaking, the central and of satisfaction. Buckwheat will maeastern portions of Missouri have suf- ture a crop of seed in eight to ten sections the meadows will hardly yield maturing. It grows best in a rather sufficient to pay for harvesting. Pas- moist, cool soil and abbuild not be tures are too dry to grow up after sown until rather late in Missouri are dry and dusty. The farmer is but little by weeds. It is often made facing a period of short feed.

The problem of producing roughage for the stock during the fall and win-



Cowpeas make either hay or pasture and is one of the best catch crops in Missouri

ter is a serious one in many localities. pecks to the acre. When conditions Large amounts of corn stover will no are favorable a yield of 40 bushels to doubt be utilized. A large amount of the acre may be expected. use of catch crops. A year of scant well adapted to Missouri.

A catch crop that is one of the most easily grown is rape. It may be drilled or broadcasted (preferably drilled) any time from May to August. A common method of preparing stubblefields for this crop is simply to disk thoroughly and sow. Rape makes a rank, succulent growth and is well green. adapted to pasturage for sheep and cattle. It is not generally favored by dairymen, but has been used to good advantage in some instances with this class of stock. It furnishes excellent grazing for hogs. It is very sensitive est quality. It requires warm weather to frost and must be used before cold in which to mature and is killed by

crop of forage when sown as late as hogs do exceptionally well when pas a dozen persons to stand erect. Each the latter part of July, providing there tured on it, and should be turned in year the tree is carefully inspected is sufficient moisture in the ground. when the seed begin to form. The Hungarian millet produces a bet-

may be fed to stock with some degree clover.

roughage will also be produced by the Corn and sorghum are sometimes use of catch crops. A year of scant sown later and cut with a mower beforage like the present makes the fore they mature for hay. They are growing of these crops of unusual im- either drilled or sown broadcast. After portance. There are several that are sorghum is cut the first time a second erop often springs up and two cuttings may be realized. Sudden death of stock has often been reported from feeding second-growth and frosted sorghum. This is believed to be due to the presence of prussic acid in the stalks. For this reason the second growth is often plowed under while

Cowpeas can be used as a catch crop, and in some respects is the best plant that can be grown. It has a most favorable effect upon the land and produces a feed of the very highfrost. Cowpeas may be sown as late as the middle of July and used either Millet will grow and produce a good for pasture or cut for hay. Sheep and

When used either for pasture or ter quality of hay and less seed than hay the seed should be drilled in with the German, and should be used when the grain drill, allowing only every sowing for hay. Millet does not make third hole to run. The seed are sown the best of hay for any class of live at the rate of about a bushel to the stock, but when properly barvested it acre. The New Era is one of the may be used as a part of the ration earliest-maturing varieties and is for cattle and horses with good re- recommended to Missouri farmers. It is also well adapted to sowing in corn Buckwheat is not usually grown for at the last cultivation. Cowpea hay forage, but is often used as a catch is of the very finest sort either for

the ground it breaks up the top layer

of soil and makes it loose and sep-

arate from the moist soil beneath. Tho

water can no longer rise to the sur-

or mulch. The sun and wind cannot

get to it and evaporation is greatly

The ground that is plowed usually

looks dryer than the unplowed field,

because in the latter the moisture

The mulch that is formed by plowing

becomes perfectly dry, showing that

it is not being supplied with moisture

Weeds use moisture in the same

way that corn does. Their destruction

Carefully conducted experiments

have proven that a much of about

in preventing evaporation. Plots of

land were plowed at different depths

and the moisture content determined

over a period of time. In this way

For Protection Against Hail.

The French government is encour

Wholesale Invitation.

mistakes made by parsons. Among

them is one told of a certain clergy-

man who left a notice in his pulpit to

be read by the preacher who ex-

changed with him. The minister neg-

lected to denote carefully a private

postscript, and the people were aston-

ished to hear the stranger end by say-

with me at the parsonage after serv-

"That old uncle of mine." Mrs. Jen-

nie Lee Ondego was saying, "is the

had the measles he wouldn't let it

"I've a good mind to go and jump in

break out on him."

old clothes before you start."

"You will please come to dine

There have been many innocent

lessened.

corn roots.

can not form.

### SAVING THE MOISTURE is in unplowed fields and as it is after rains, there is nothing to keep the THOROUGH, SHALLOW CULTIVA

TION FORMS A MULCH THAT PROTECTS CORNFIELD.

By C. E. Brashear of the College of Agriculture, University of Missouri.

In many sections of Missouri there is sufficient moisture in the soil to face, but is held below the broken soil mature the corn crop if the soil be properly handled. The efficiency of dry-farming methods was nicely demonstrated in 1911. The drought of that year was nearly the equal of that of 1901, yet the yield of corn in Missouri was vastly different. In 1901 comes to the surface and is visible. the yield per acre was nine bushels. while in 1911 it was 25 bushels.

In these figures there is a lesson from beneath. for the man who is trying to grow corn in a dry season. In 1911 the dust mulch was maintained over the is a further means of saving water. corn fields better than it ever was in any other year. Frequent and shallow cultivation was the rule. It was three-inch thickness is most efficient recommended by the college of agriculture and by the state board of agriculture. A stream of literature from these institutions encouraged the farmers in practicing cultural meththe most desirable depth was found ods that had been found experimental-To plow deeper than three inches ly best adapted to dry conditions.

means the destruction of a great many The value of the dust mulch is easlly understood. It acts in the same way a blanket would if spread over the soil. A corn plant uses approximately 300 pounds of water for every aging experiments with a new device pound of dry matter it stores in its to protect against hall, essentially a tissues. A continual drain is being made on the supply in the soil. As it very large lightning rod of pure atmospheric electricity so that hall stones is used and evaporated by the corn more rises to the surface.

The Right to Smoke. "Do you think it looks well for women to smoke as they do in some Spanish-speaking countries?" "Well," replied the worried Londoner, this way; If they're smokin' they're likely either to be quiet and comfortable, or if they're not used to it just the opposite. And either way's a good chance of keepin' 'em out of the suf-

fragette parade."

To love the unlovely, to sympathize with the contrary-minded, to give to the uncharitable, to forgive such as never pity, to be just to men who make iniquity a law, to repay their ceaseless hate with never-ceasing love, is one of the noblest attainments

man, and in this he becomes most

divine.-Theodore Parker.

A Brooklyn public school teacher says that she once required a pupil to compose a sentence with the word picked up his hat and started out. "dogma" as the subject. The pupil, a won come back here," said his wife. and of 10, after some deliberation, sub "If you intend any such trick as that. mitted his effort. It read: "The dog- just march upstairs and put on pour ma has five pups."

PRIZED RELIC OF COLUMBUS

Ancient Celba Tree Which Sheltered Him on His First Voyage of Discovery.

Santo Domingo City.-On the river bank at Santo Domingo City, capital of the Dominican Republic, below the ruined city wall stands the ancient Celba tree to which Christopher Columbus tied his water-logged and sinking caravels when he sought refuge in the river on his first voyage of discovery. This tree, already more than a century old when the discoverer landed, bears imbedded in its bark a leaden plate inscribed and placed there by Columbus, claiming the country for the king of Spain. On the heights above is the venerable



It Sheltered Columbus.

(Old Ceiba tree in Santo Domingo to which he tied his sinking caravels on his first voyage to the new world. The tree is over 50 years old and is carefully guarded by the government of Santo Domingo.)

ruin of the Casa de Colon, the first building of European construction in the western hemisphere. The giant Ceiba is regarded with veneration by the natives and is protected under a special act of the Dominican congress. It was known to the Indians as the "council tree" and in its shade the Spanish conquerors signed the numerous treaties with the then powerful tribes of the interior, which were always violated at the first opportunity by the Spaniards. Of these aboriginal inhabitants little is known as they were practically exterminated during the 300 or more years of Span-Ish domination. Within the great buttressed trunk of the Ceiba, hollow now with age, there is room for half for signs of disease or decay and the trunk whitewashed to protect the bark from insect pests.

#### LONG CHASE AFTER BAD MAN

Bold Horse Thief and Highwayman Will Not Trouble Idaho Any More.

Gooding, Idaho.-The horse thief and stickup man that has been makcrop. If the straw is well cared for it cattle or sheep. It is the equal of ing free with the peace of three counties was apprehended at Galena, a ranger station about thirty-five miles

north of Ketchum. The follow, who was given a different name every time he was asked. stole a horse and saddle from a barn wind and sun from evaporating water at Bliss, rode from there to Camas from the ground that does not pass prairie and held up a saloon. He then through the corn plant. And this is returned to Bliss via the shearing what takes place in large amounts. corrals in the mountains, where he Now, if the cultivator is pulled over raised cain generally.

Constable Pinkham of Bliss, noticing that he answered the description of the man wanted, arrested him and took him to the hotel and phoned for Sheriff Bliss at Gooding. While phoning, the prisoner walked out and when pursued took a shot at Pinkham with his rifle, of which the constable had neglected to relieve him.

Pinkham abandoned the chase and nothing was done till Sheriff Bliss took up the trail. He tracked the man by means of an oddly shaped horseshoe and followed him nearly to Gooding then north over the Sawtooth Mountains and up Willow Creek. The forest rangers were notified to watch for the man and horse and when he show ed up at Galena he was invited to stay all night.

It was his intention to do so until a second ranger appeared on the scene, but when he attempted to leave the invitation was repeated at the point of a revolver. The sheriff arrived half an hour later.

TOWN HAS FAMINE IN WOMEN

Only One of the Fair Sex to Every Two Men in Edmonton, Canada.

Edmonton, Alberta.-Thomas Walker, city assessor, says in an official report submitted to Mayor William Short and the council, that the civic census just completed shows a popula May 1, as compared with 52,611 on census just completed show a popula tion of 67,342 in the city proper on June 1, 1912, an increase approximat-

ing 25 per cent. The Dominion ceasus, taken in 1911, gave Edmonton and Strathcona, now merged, a total population of 30,462. The correctness of the census was challenged at the time as being too

Analysis of the figures for 1913 shows there are 28,469 males and 15, 909 females over twenty-one years of age; 10,991 males and 10,869 females under twenty-one years and 915 unclassified, while on June 1, 1912, there were 22,630 males and 11,452 females eigest and most secretive human be over twenty-one years of age, 8,247 ing I ever knew. When he gets a males and 8,591 females under twentychill he won't shake, and when he one years, and 2,691 unclassified.

Canary Bird a "Wild Beast." New York.-Magistrate MacAdeo classed a canary with "wild beasts" to the river," said-N. Peck, at the end when he told Jacob Sandrack that no of a little domestic discussion, as he one can legally claim ownership to a wild bird or animal at large. Sand-rack applied for a permit to search the rooms of a neighbor who refused to return the bird when it flew into the



THE COCA-COLA COMPANY, Atlanta, Ga.

# fiby's Pork Beans Delicious - Nutritious

Plump and nut-like in flavor, thoroughly cooked with choice pork. Prepared the Libby way, nothing can be more appetizing and satisfying, nor of greater food value. Put up with or without tomato sauce. An excellent dish served either hot or cold.



Beautiful Leicester.

Leicester, the latest town to offer the sport of a by-election, has learned how to make herself beautiful from unpromising materials. She has no suitable building stone handy, and, therefore, out of red bricks, put together by cunning architects, she has constructed a city unlike any other in England. A local art school has fostered the spirit of beauty, and thus Leicester has triumphed over her limitations. She has been described as a rosy-red town set in a mass of greenery. Even the lamp posts have been designed by a sculptor, who is not ashamed to let them bear his name.-London Chronicle.

WILL RELIEVE NERVOUS DEPRESSION
The Old Standard general strengthening tonic,
GROVES TASTELESS chil TONIC, arouses, the
liver to action, drives out Mainria and builds up the
system. A sure Appetier and aid to digestion.
Vor adults and children. 60 cents.

For "Mr. Fragile."

A man with an express package un der his arm, stepped up to the box office window of a New York theater and addressing Frank Loomis, asked: "Anybody here named Fragile?"

replied Loomis. "Well, that's the name on this package."

don pictures. inscribed: "Fragile!

### SKIN

In the care of baby's skin and hair. Cuticura Soap is the mother's favorite. Not only is it unrivaled in purity and refreshing fragrance, but its gentle emollient properties are usually sufficient to allay minor irritations, remove redness, roughness and chafing, soothe sensitive conditions, and promote skin and hair health generally. Assisted by Cuticura Ointment, it is most valuable in the treatment of eczemas, rashes and itching, burning infantile eruptions. Cuticura Soap wears to a wafer, often outlasting several cakes of ordinary soap and making its use most eco-

nomical. Cuticura Soap and Ointment sold throughout the world. Sample of each free, with 32-p. Skin Book. Address post card "Cuticura, Dept. L. Boston."-Adv.

Out Too Often. "George, love," began the dear girl, 'after we're married you won't be out nights, will you?"

"I hope not," replied George, who plays poker. "Pray for me."

Heroic Treatment. "Is there anything you can suggest as a remedy for hay fever?" asked the man who was sneezing. "Yes. Go to some place where there

are plenty of mosquitoes and you'll

forget about it." Where He Excelled. Redd-Did his son get a diplomi from college? Greene-No, but he brought home

a rattling good letter of recommendation from the rowing coach! Some Pitcher. She - My! lun't the man who throws the ball for our side just won-

derful! He throws it so they hit ft

every time.-Puck. LEWIS' Single Binder, straight 5c-many mokers prefer them to 10c cigars Adv.

Bound to Be Heard. Patience—What do you suppose makes that baby cry so awfully loud? Patrice-Why both of its parents are hard of hearing, you know.

An Australian artesian well reaches a depth of more than 5,000 feet

#### TRUE SPIRIT OF THE HOME

Serenity and Wisdom of Wife and Mother Dew and Sunshine to Growing Souls.

Wherever the great and beautiful

work of art, a home, had come into being, the wife and mother has had her paramount existence in that home though her interests and activities have not necessarily been limited to its sphere, declares Ellen Key in the Atlantic. But husband and children have been able to count on her in the home as they could count on the fire on the hearth, the cool shade under the tree, the water in the well, the bread in the sacrament. Thus upon husband and children is bestowed the experience which a great poet gained from his mother. "All became to her a wreath!" A wreath where every day's toil and holiday's joy, hours of labor and moments of rest, were leaf and blossom and ribbon. educator is never one who is "educating" from morning to night. She is one who, unconsciously to the children, brings to them the chief sustenance and creates the supreme conditions for their growth. Primarily Loomis took a look. The box was renity and wisdom of her own na of a field piece of steel of the same class honors were from Girton, 2 she is the one who, through the seaddressed to the manager of the Lon- ture, is dew and sunshine to growing Over the address was souls. She is one who understands how to demand in just measure, and to give at the right moment. She is one whose desire is law, whose smile THE RIGHT SOAP FOR BABY'S is regard, whose disapproval is punishment, whose caress is benediction.

> Juvenile Tact. Small Thomas heard his mother telling his older brother that it was a tactful thing to appear to think peo-

ple vounger than they were. His sister's French teacher arriv ing shortly after, it fell to Thomas to entertain her until his sister appeared.

Thomas decided to do it up brown. "How old are you, Miss Grey?" he

asked politely.
"I'm dreadfully old, Thomas," she answered. "I'm twenty-three!" "Oh!" said Thomas, gulping a lit-

tle with the unusual effort. "I-I never thinked you was more'n s-seven." -Lippincott's.

Rathenow.

Rathenow - where King George broke his journey to Berlin in order to inspect the squadron of Ziethen Hussars commanded by the royal bridegroom, Prince Ernest of Cumberland—is a sleepy little market town in the mark of Brandenburg, about forty miles from the capital and only a few from Schonhausen, the ancestral seat and birthplace of Bismarck. It was at Rathenow where Otto von Bismarck, a bearded young Junker, presented himself for election to Prussian's first approach to a parliament. The electors showed their prescience by stoning the man who was destined to cre ate the new German empire.

Taking Orders. Miss Hogabust (of Chicago)-And what profession is your son in, Lord Hightop!

Lord Hightop - Oh, when Algy leaves college I expect he will take orders Miss Hogabust (surprised) - You

don't say! Well, poppa has got some real nice gentlemen traveling for him.

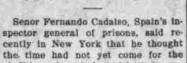
Saved Somebody's Eyes. Church-A sick cat in North Adams. Mass., was found to be suffering from having swallowed a seven-inch hatpin.

Gotham-Well, that's one way of getting the objectionable hatpins out

Perhaps whisky does improve with

#### NOT YET THE SINLESS WORLD

Spanish Penology Expert Illustrates Point With an Appropriate "Watermelon" Story.



abolition of capital punishment. "The world is not yet civilized enough for this advance," he contin-"The world, you know, is still a good deal in the state of the colored people in the watermelon story. "I heard this story from one of your clever southern editors. He said that a man was a good deal troubled by thieves in his watermelon patch

and so he called up his old gardener and began: "'Uncle Ell, I'm trying an expertment with Doc Sawyer in the south watermelon patch. The melons there are a poison variety, and if any of your colored friends touch them they'll be killed, sure. You'd better warn them, hadn't you?'

"Sartenly I had, sah, said Uncle Ell, 'l'll warn 'em, sah. Trust me.' 'And do you think your warning'll have any effect? Do you think it will protect the south patch from theft?" "What I thinks, sah, said Uncle Eli, scratching his head, 'is dat-

dat patch, dat's what I thinks, sah." Three Cheers for 'Em. "I like this pattern well enough," said the customer who had dropped

there'll be a lot o' dade niggers round

in to look at some ribbons, "but I'm afraid the colors will run." "Run, ma'am!" indignantly an swered the salesman. "Red, white and blue? They never run!" Whereupon the woman with tiny American flag pinned to the

yards. It was feminine curiosity that led to the discovery of Moses in the bull-

lapel of her jacket rose patriotically

to the occasion and bought 45

Would you try to flatter a married

look it?

man by telling him that he doesn't



**ALLEN'S** 

FOOT-EASE.

Make the Liver

CARTER'S LITTLE

and Distress After Eating.

LIVER PILLS

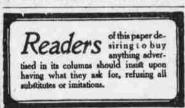
pel a lazy liver to

Nine times in ten when the liver is right the stomach and bowels are right.

SMALL PILL, SMALL DOSE, SMALL PRICE.

Genuine must bear Signature

**BIG MONEY FOR AGENTS** 



W. N. U., ST. LOUIS, NO. 31-1913.

Women Won Honors at Cambridge.

Women have distinguished them-

selves this year at Cambridge, Eng-

land. In the mediaeval and modern

were gained by 14, 8 of whom were

women and 6 of whom were men.

taken by only one other woman be-

Alexander Stephens as a Lawyer.

Alexander H. Stephens' fine intellec-

tual sincerity stands out fully, and

In his own profession of the law

1882.

### Don't Poison Baby.

ORTY YEARS AGO almost every mother thought her child must have PAREGORIC or laudanum to make it sleep. These drugs will produce sleep, and a FEW DROPS TOO MANY will produce the SLEEP FROM WHICH THERE IS NO WAKING. Many are the children who have been killed or whose health has been ruined for life by paregoric, laudanum and morphine, each of which is a narcotic product of opium. Druggists are prohibited from selling either of the narcotics named to children at all, or to anybody without labelling them "poison." The definition of "narcotic" is: "A medicine which relieves pain and produces sleep, but which in poisonous doses produces stupor, coma, convulsions and death." The taste and smell of medicines containing opium are disguised, and sold under the names of "Drops," "Cordials," "Soothing Syrups," etc. You should not permit any medicine to be given to your children without you or your physician know of what it is composed. CASTORIA DOES NOT CONTAIN NARCOTICS, if it bears the signature of Chas. H. Fletcher. ORTY YEARS AGO almost every mother thought her child must have of Chas. H. Fletcher. Genuine Castoria always bears the signature of Charty Fletcher.

Paper Cannon.

To the amazingly long list of aricles made of paper there may be added paper cannon, which have been manufactured at the Krupp works, in languages tripos first class honors Germany. These paper field pieces are for special use of the infantry. Their caliber is a little less than two In Class I 35 passed, of whom 24 were inches, and the pieces are so light women and 11 were men. In Class III, that a soldier can easily carry one. 13 men and 8 women passed. Five But the resistance is greater than that of the women who gained first caliber. It is not to be understood from Newham. In Part II of classthat these paper guns are in any way ics. 3 Newnham women gained first to replace those made of steel. The class honors. In history, Part I. paper arms are intended merely for a Girton woman, Miss N. G. Smith, uses in situations where the move- shared highest honors with men. And ment of field artillery would be im- a Girton woman, Miss T. Day, took a practicable. Paper artillery on the field second class in Part II. of the theoof battle seems an extraordinary logical tripos. This tripos has been thing, but it is hardly more so than paper wheels for freight cars on rail- sides Miss Day. That was back in ways appeared when they were first introduced, or, for that matter, than paper water pails were.

Wanted Burden Lifted

Leonard is only four years old, but he frequently uses expressions amazingly mature. The other day, for instance, he appealed to a devoted young aunt to remove from his sphere of existence the new little baby sister of whom he had become jealous. The tiny lad was at some pains to explain that while he didn't want baby himself, she was so sweet and dear that plenty of other people

"But why don't you want to keep her. Leonard?" asked auntie, divided between surprise and amusement. "Oh, she's such a bother, an' mam ma has to fuss with her so much, an she makes me just suffer," the young-

ster gravely explained. Wise Directions. "When you come to a fork in the road, take it."

"I will, if it is a silver one." A rich girl has got to be awfully ugly in order to be homely.

Two is company, but three is a mul

titude when father butts in

well proves that success requires neither dishonesty nor shuffling. "What business do you follow, Alex?" said his uncle to him in the early days. "I am a lawyer." After an ominous silence the uncle spoke again. "Alex, don't you have to tell lies?" Alex did not have to tell lies. Hear what he says, reviewing his career in old age: "No advocate should ever assert as matter of fact in his client's case what he knows is not such; any code of morals justifying him in this does not deserve the name." And again, more personally: . "My rule from the time I was admitted to the bar was: First, to investigate a case submitted to me, to inquire into the facts and the law applicable to it; then, if I did not believe the party

entitled to success before the court, I

told him so and declined to appear or

prosecute the case."-Gamaliel Brad-

ford, Jr., in the Atlantic.

Put On. "Is Dobbs a man of superior attain-"No. Merely of superior airs."

## THE BEST HOT WEATHER TONIC, GROVE'S TASTELESS CHILL TONIC

The Old Standard, General Tonic. Drives out Malaria, Enriches the Blood and Builds up the Whole System.

#### FOR ADULTS AND CHILDREN.

It is a /combination of QUININE and IRON in a tasteless form that wonderfully strengthens and fortifies the system to withstand the depressing effect of the hot summer. GROVE'S TASTELESS chill TONIC has no equal for Malaria, Chills and Fever, Weakness, general debility and loss of appetite. Gives life and vigor to Nursing Mothers and Pale, Sickly Children. Removes Biliousness without purging. Relieves nervous depression and low spirits. Arouses the liver to action and purifies the blood A true tonic and sure appetizer. Guaranteed by your Druggist. We mean it. 50c.